

The sum of these investigations is this: that one plant of *Erica cinerea* which it has been impossible to trace to human agency appeared in Nantucket forty years ago and lived till 1902 or 1903; that there are two of the same species of doubtful origin now alive near the spot where the first was found; that the Lawrence Coffin *Calluna*, now dead, in all probability adds one more locality for this as a wild plant to those previously known in New England and the British provinces; that the *Calluna* of the nursery came in from Europe with the imported trees; that every other bit of it on the island goes back to that for its origin, or else has come from the Kimball, Dahlgren or Starbuck seed, and that the cross-leaved heather, *Erica tetralix*, stays under the pines and larches where it was first found.

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#### ADDITIONAL LISTS OF CONNECTICUT DIATOMS.

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DURING the past year I sent to Tempère at his request some fifty different gatherings of North American diatoms. He was about to issue the second edition of the "Diatomeés du monde entier"<sup>1</sup> and I was pleased at the opportunity of bringing these collections to the notice of the scientific world, especially as many of them contained new species that I had discovered. Among these gatherings was one from "Doer's Mountain Grove" Ice pond, on a small mountain brook near New Britain reservoir. This was notable as containing abundance of *Surirella Terryi* Ward. This *Surirella* was the principal form in Spring's Pond, a small pond on the north bank of the Pequaback River in Bristol, and with it were numbers of the small *S. ovalis* var. *angusta* (Kütz.) V. H. A quarter mile down the river just east of Saw Shop is a pond hole on the Lee property formed by cutting off a bend of the river when the highway was moved to accommodate the railroad; this is also rich in *S. Terryi*. Below this

<sup>1</sup> Diatomées du monde entier. Collection Tempère et Peragallo. Deuxième Édition. 1907-1908.

is Downs' Pond, a large part of which is a cove setting back from the river, in which the mud is three or four feet deep, all very rich in diatoms, including abundance of the species in question, which is abundant also in Thompson's Pond, on the headwaters of a small brook flowing into Downs' Pond, and Allen's Pond in Stafford district, near the northeast corner of Bristol, on the headwaters of a small stream, and Beattie's Pond, at Leete's Island. At this last station are also other rare species, including *Navicula peripunctata* Brun, *Pleurosigma simile* Grun., and the very rare *P. subsalinum* Per. Outside these ponds above noted I have never found more than an occasional specimen of *S. Terryi* in all the hundreds of gatherings by myself and others from streams, ponds, lakes and rivers all over the country. Of the seven ponds in which this species is found, four are on the headwaters of streams many miles apart, but all in Connecticut, while the others are on the Pequaback River.

The following lists from the third and fourth fascicles of the *Diatomées du monde entier* are from my material and are interesting as being the latest and most authoritative determinations; many species here given were not in my list<sup>1</sup> and some of them have never before been credited to North America. In spelling, abbreviations and italics, the original is followed; the explanation as there given is — “Nota. Le nom des espèces prédominantes sont imprimés en caractère gras; les rares en italique et les autres en caractère courant.”

The Fall Mountain gathering was from a small brook flowing from a mountain spring; Bunnell's Pond is the highest in a series of ponds on a stream flowing from South Mountain reservoir.

No. 78. ICE POND, NEW BRITAIN, (CONNECTICUT, U. S. A.).

<i>Achnanthes coarctata</i> Grun.	<i>Encyonema lunatum</i> Grun.
<i>Amphora libyca</i> Ehr. <i>ovalis</i> Ktz.	<i>Epithemia argus</i> v. <i>amphicephala</i> Grun.
<i>pediculus</i> Ehr.	<i>gibba</i> Ktz.
<i>Cymbella amphicephala</i> Naeg. <i>Ehrenbergii</i> Ktz.	v. <i>ventricosa</i> Ktz. <i>zebra</i> v. <i>proboscidea</i> Grun.
<i>gastroides</i> Ktz.	<i>Eunotia diodon</i> Eh. fa. <i>minor</i> .
<i>naviculaeformis</i> Auers.	<i>impressa</i> Grun.

<sup>1</sup> RHODORA, Vol. IX, p. 125.

<i>Eunotia lunaris</i> Grun.	<i>Navicula mesogongyla</i> v. <i>interrup-</i>
<i>major</i> Rab.	<i>ta</i> Cl.
<i>v. ventricosa</i> Cl.	<i>mesolepta</i> v. <i>stauronei-</i>
<i>monodon</i> Eh.	<i>formis</i> Gr.
<i>pectinalis</i> Rab.	<i>mesotyla</i> Eh. var.
<i>v. ventricosa</i> Grun.	<i>nobilis</i> Ktz.
<i>praerupta</i> v. <i>bidens</i> Grun.	<i>nodosa</i> v. <i>curta</i> Rab.
<i>ternaria</i> Eh.	<i>pupula</i> v. <i>lineare</i> v. n.
<i>Fragilaria virescens</i> Ralfs.	avec la striation de
<i>Gomphonema acuminatum</i> Eh.	<i>N. pupula</i> et la forme
<i>dichotomum</i> W. Sm.	bacillaire à extrémités
<i>intricatum</i> Ktz.	arrondies M. P.
<i>montanum</i> Shum.	<i>trinodis</i> Lewis.
<i>montanum</i> v. <i>suecica</i>	var.
Grun.	<i>viridis</i> Ktz.
<i>Hantzschia amphioxys</i> Grun.	<i>v. commutata</i> Grun.
<i>elongata</i> Grun.	<i>Nitzschia sigmoidea</i> W. Sm.
<i>Meridion constrictum</i> Ralfs.	<i>Stauroneis anceps</i> Eh.
<i>Navicula acrosphaeria</i> Bréb.	<i>v. linearis</i> Eh.
<i>affinis</i> Ktz.	<i>gracilis</i> Eh.
<i>amphirynchus</i> Eh.	<i>legumen</i> Ktz. La forme
<i>bicapitata</i> v. <i>hybrida</i>	représentée dans V.
Grun.	H. Syn. 4/11 n'en est
<i>Braunii</i> Grun.	qu'une variété très
<i>v. interrupta</i> .	étroite.
<i>Brebissonii</i> Ktz.	<i>Surirella saxonica</i> Auersw.
<i>cryptocephala</i> Ktz.	<i>splendida</i> Eh.
<i>cuspidata</i> Ktz.	<i>tenera</i> v. <i>splendidula</i> A.S.
<i>dubia</i> Greg.	<b>Terryi</b> Ward n. sp.
<i>gigas</i> Ehr.	<i>Synedra capitata</i> Eh.
<i>iridis</i> Eh.	<i>ulna</i> Eh.
<i>limosa</i> Ktz.	<i>Van Heurckia rhomboides</i> v. <i>am-</i>
<i>v. subundulata</i> .	<i>phipleurooides</i> Grun.
<i>major</i> Ktz.	

Nos. 103, 104. FALL MOUNTAIN, BRISTOL, CONNECTICUT no. 1  
(Etats-Unis).

(Sources et ruisseaux à 800 pieds d'altitude).

*Achnanthes lanceolata* Bréb.  
v. *Haynaldii*?  
*Cymbella gastroïdes* Ktz.

*Diatoma anceps* v. *capitata* M. Per.  
à extrémités resserrées  
et fortement capitées.

- Diatoma anceps* v. *linearis* M. Per.  
très étroite, lineare à extrémités atténées.  
*hyemale* fa *curta*.  
var. *mesodon* Grun.
- Encyonema ventricosum* Grun.
- Eunotia arcus* Eh. v. *minor* V. H.  
v. *tenella* Grun.  
*minor* Rab.  
*pectinalis* v. *stricta* Rab.
- Fragilaria aequalis* v. *producta* Lag.
- Gomphonema angustatum* Ktz.  
angustatum v. elongata M. Per. plus long que le type, biconique à extrémités à peine un peu produites. Longueur 60  $\mu$ .  
angustatum v. *ducta* P. P.  
*dichotomum* W. Sm.  
*micropus* Ktz.  
*tenellum* Ktz.
- Hantzschia amphioxys* Grun.  
fa *major* Grun.  
*vivax* v. *granulata* M. Per. très grand, porte à une certaine distance de la carène une ligne de points analogues aux points carénaux. Longueur 250  $\mu$ . 13 stries en 10  $\mu$ .
- Meridion constrictum* fa *elongata*, très long et étroit.  
*constrictum* v. *Zinkenii* Grun.
- Navicula acrosphaeria* v. *minor* M. Per. et F. H.  
*appendiculata* Ktz.
- Navicula bisulcata* Lag.  
*Bogotensis* v. *ininterrupta* M. P. à striation non interrompue au milieu de la valve.  
*Bogotensis* v. *undulata* M. Per. diffère de A. S. 44/30 par les bords trondulés.
- Cari* Eh. v. *angusta* Grun.  
*decurrans* Eh.  
*dicephala* Eh.  
*dicephala* v. *lata* M. Per. largement elliptique, rostrée, capitée et striation du *Nav. dicephala*.  
*divergens* W. Sm.  
*elegantissima* M. Per. Petite, largement elliptique à extrémités rostrées, capitées; structure formée de granules fines disposées en élégantes lignes courtes décussées comme chez les Orthoneis.  
*elliptica* Ktz.  
*fasciata* Lag.  
*gibba* Ktz.  
*hemiptera* Ktz.  
*heroina* A. S.  
*major* Ktz.  
*parva* Eh.  
**Smithii** v. *dilatata* M. Per. fortement dilatée, presque circulaire; aire centrale développée, côtes fines et isolées, peu distinctement granulées.  
*stomatophora* Grun.  
*subcapitata* v. *stauroneiformis*.

<i>Navicula viridis</i> Ktz.		extrémités relative- ment plus larges et plus capitées. Long 22 $\mu$ largeur 7 $\mu$ .
	v. <i>commutata</i> Grun.	
	v. <i>fallax</i> Cl.	
<i>Pleurosigma attenuatum</i> W. Sm.		
<i>Stauroneis anceps</i> Eh.	Synedra ulna Eh.	
	v. <i>linearis</i> .	v. <i>vitrea</i> V. H.
	<i>anceps</i> v. <i>capitata</i> M.	
	Per. Semblable à la variété <i>amphicephala</i> mais plus petit, à bords droits et à	Tabellaria <i>fenestrata</i> Ktz. <i>flocculosa</i> Ktz. v. <i>ventricosa</i> Grun.
		Van Heurckia <i>vulgaris</i> Thw.

No. 105, 106. BUNNEL'S POND, BRISTOL, CONNECTICUT (Etats-Unis)  
(Dépôt fossile d'eau douce).

<i>Amphora Lybica</i> Eh.	Eunotia <i>gracilis</i> v. <i>nodosa</i> ?	les ex- trémités sont rondes, différentes de celles de
pediculus Grun.	<i>E. formica</i> .	
<i>Cocconeis placentula</i> Eh.	incisa Greg.	
	<i>lunaris</i> Grun.	
<i>Cymbella cuspitata</i> Ktz.	monodon Eh.	
<i>Ehrenbergii</i> v. <i>minor</i> V. H.	<i>pectinalis</i> v. <i>ventricosa</i>	
<i>gastroides</i> Ktz.	Grun.	
<i>heteropleura</i> Ktz.	praerupta Eh.	
<i>producta</i> M. Per. De forme élliptique, à ex- trémités productes, semblable à celle figu- rée dans A. S. atlas 9/52 mais plus grande à aire centrale plus développée et stries distinctement divisées en travers. Long 74 $\mu$ ; 7 stries dorsales, 8, 5 ventrales en 10 $\mu$ .	robusta v. <i>tetraodon</i> V. H.	
<i>Encyonema ventricosum</i> Ktz.	Fragilaria <i>Harrissonii</i> Grun.	
<i>Epithemia turgida</i> Ktz.	virescens Ralfs.	
Zebra Ktz.	Gomphonema <i>acuminatum</i> Eh.	
<i>Eunotia arcus</i> Eh.	angustatum Ktz.	
	<i>augur</i> Eh.	
v. <i>plicata</i> J. B. et F. H.	commutatum Grun.	
diodon Eh.	constrictum v. <i>capitata</i>	
	Eh.	
fa. <i>minor</i> Grun.	constrictum v. <i>subcapi-</i>	
formica Eh.	<i>tata</i> Eh.	
	Herculanum Eh.	
	micropus Ktz.	
	Mastogloia <b>Smithii</b> Thw. var.	
	Meridion <i>constrictum</i> Ralfs.	
	<i>Navicula acrosphaeria</i> Ktz.	
	acrosphaeria var. <i>dilatata</i>	
	M. Per. à centre très	

fortement dilaté en forme de cercle et à extrémités capitées.	Navicula sp. A. S. atlas 44/44.
<i>affinis</i> v. <i>amphirynchus</i> Eh.	sp. A. S. atlas 49/40. (N. producta v. acuta.)
<i>Navicula affinis</i> fa. <i>maxima</i> .	<i>Nitzschia spectabilis</i> Ralfs.
<i>americana</i> v. <i>bacillaris</i> M. P. et F. H.	<i>Stauroneis acuta</i> W. Sm. v. <i>gracilis</i> Eh.
<i>amphigomphus</i> Eh.	<i>gracilis</i> Eh.
<i>bisulcata</i> Lag.	<i>lanceolata</i> Ktz.
<i>Bogotensis</i> Grun. var.	<i>Phoenicenteron</i> Eh.
<i>brevicostata</i> Eh.	<i>Pteroidea</i> Eh.
<i>commutata</i> Grun.	<i>Stephanodiscus astraea</i> Grun.
<i>dactylus</i> fa. <i>curta</i> Ktz.	<i>Surirella Guatemalensis</i> Eh.=Sm. Cardinalis Kitt.
<i>Dariana</i> A. S.	<i>Kittoni?</i> A. S. v. <i>elliptica</i> .
<i>divergens</i> W. Sm.	<i>linearis</i> W. Sm. v. <i>constricta</i> Grun.
<i>divergens</i> v. <i>bacillaris</i> M. Per. tout à fait bacillaire à extrémités exactement hémicirculaires.	<i>pseudo cruciata</i> M. Per., de structure tout à fait semblable à celle de A. S. 56/15, 16 mais ne présentant pas le renforcement de la partie centrale.
<i>divergens</i> v. <i>constricta</i> M. Per. à partie ventrale resserrée et à extrémités atténues arrondies.	<i>splendida</i> Eh.
<i>elegantissima</i> M. Per.	<i>tenera</i> Greg. v. <i>nervosa</i> A. S.
<i>fasciata</i> Lag.	v. <i>splendidula</i> A. S.
<i>gentilis</i> Donk.	<i>valida</i> A. S.
<i>gibba</i> Eh.	<i>Synedra splendens</i> Ktz. ulna Eh.
<b>Hitchcockii</b> Eh.	v. <i>lanceolata</i> fa <i>brevis</i> Grun.
<i>iridis</i> Eh.	v. <i>undulata</i> Greg.
<i>legumen</i> Eh.	<i>Tabellaria fenestrata</i> Ktz.
<i>limosa</i> Ktz.	<i>flocculosa</i> Ktz.
<i>linearis</i> Greg.	<i>flocculosa</i> v. <i>ventricosa</i> Grun.
<i>major</i> Ktz.	
<i>mesolepta</i> v. <i>stauroneiformis</i> Grun.	<i>Van Heureckia rhomboides</i> Bréb.
<i>mesostyla</i> Ktz.	<i>rhombooides</i> v. <i>amphipleurooides</i> Grun.
<i>nobilis</i> Eh.	<i>vulgaris</i> Thw.
<i>rhyncocephala</i> Ktz.	
<i>rupestris</i> Hantz.	
<i>transversa</i> A. S.	
<i>viridis</i> Ktz.	